



National Aeronautics and Space Administration  
John F. Kennedy Space Center, Florida

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**Basic**  
**02.20.01**

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**Expendable Launch Vehicles Program**

## **PROGRAM/PROJECT POLICY DIRECTIVE**

SUBJECT: Orbital Debris Assessment Responsibilities

### Executive Summary

This directive establishes the policy for defining the support roles and responsibilities of the John F. Kennedy Space Center (KSC) for Expendable Launch Vehicle (ELV) Orbital Debris Assessments.

//Original Signed By//

Michael J. Benik

Director, ELV Launch Services Project

SUBJECT: Orbital Debris Assessment Responsibilities

RESPONSIBLE OFFICE/PARTY: Mission Analysis Branch, ELV Launch Services Project

I. PURPOSE: This directive establishes the policy for defining KSC's support roles & responsibilities for ELV Orbital Debris Assessments.

II. SCOPE: This directive applies to any launch vehicle portion of orbital debris assessment for ELV missions.

III. POLICY: KSC ELV Mission Analysis Branch will support the spacecraft program offices by providing data input for the ELV launch vehicle portion of the orbital debris assessment. This input data will be collected from the most current baseline documents such as preliminary mission specific flight design reports, or the best available and valid sources at the time of the assessment.

IV. RESPONSIBILITIES:

The Mission Analysis Branch will be responsible for the following:

- A. Collecting input data required for the assessment.
- B. Contacting ELV launch vehicle contractor personnel as needed to obtain supporting information and/or clarification, and to verify the validity of the input.
- C. Providing the input data to the appropriate KSC Mission Integration Team (MIT) representative for official transmittal to the spacecraft program office. The analysis and assessment report preparations are the responsibility of the spacecraft program office.

For dual spacecraft missions with a dual payload attachment or adapter, it is recommended that the spacecraft on top of this adapter be responsible for the separable portion of this attachment. The other (lower) spacecraft will be responsible for the launch vehicle upper stage portion of the orbital debris analysis and report.

The input from KSC will include the following information:

- A. State vector at release or burnout of element in question
- B. Mass of element
- C. Element cross sectional area information
- D. Copies of any applicable launch vehicle specific memos on file, or an example of a Debris Assessment Report.

Any additional KSC mission analysis support will be evaluated on a case-by-case basis.